



# Australian Bureau of Statistics

## 1351.0.55.019 - Research Paper: An Estimating Equation Approach to Census Coverage Adjustment, May 2007

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### Summary

#### About this Release

A Census Post-Enumeration Survey (PES) is conducted after each Australian Population Census. The PES provides a measure of the net under-count of the Census, and is a key input into the production of the official Estimated Resident Population counts.

This paper describes estimation of net under-count in the context of the 2006 Census and PES. It introduces a new estimator, the prediction regression (PREG) estimator, as an extension of the dual system estimator (DSE) standardly used in estimating Census under-count. In contrast to the DSE, the PREG estimator can use a variety of benchmark variables without the need to form non-overlapping post-strata. It can also adjust appropriately for persons that report different categories in the PES than were recorded in the Census.

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